

We Claim:

1. A docking system for connecting a portable communication device to a further signal transmission line, said portable communication device having an externally radiative antenna, said system comprising:

a shield for restricting at least a portion of any radiation emanating from said externally radiative antenna of said portable communication device; and

a coupling probe mounted adjacent to said shield for radiatively coupling between said externally radiative antenna of said portable communication device and said further signal transmission line via radio frequency energy therebetween.

2. The docking system as recited in claim 1, wherein said shield is comprised of an electrically conductive material.

3. The docking system as recited in claim 1, wherein said shield defines a focal area station for receipt and transmission of a radio frequency signal, when a communication device is placed within said focal area. room, tray

4. The docking system as recited in claim 3, wherein said focal area stations may be selected from the group consisting of a desk, a room in a building, or a tray in a vehicle.

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5. The docking system as recited in claim 1, wherein said further signal transmission line comprises a further antenna located at a location remote from said shield.

6. The docking system as recited in claim 1, wherein said further signal transmission line comprises a distribution network to permit communication of said communication device with other electrical communication devices.

7. The docking system as recited in claim 5, wherein said transmission line has a control unit therein, said control unit being arranged to permit monitoring and regulation of signals being transmitted through said transmission line.

8. The docking system as recited in claim 7, wherein said control unit comprises a computer arranged to monitor time or use of said docking system.

9. The docking system as recited in claim 3, wherein said shield and said probe are spaced apart from one another by a dielectric material.

10. The docking system as recited in claim 9, wherein said shield, said probe and said dielectric material are flexible.

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11. The docking system as recited in claim 6, wherein a plurality of said communication devices are arranged in a simultaneous connection to said transmission line.

12. A method of coupling a portable communication device having an externally radiative antenna, to a signal transmission line having a further distribution system and/or remote antenna thereon, for the purpose of effecting radio signal communication therebetween, said method comprising the steps of:

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arranging a radiation shield in juxtaposition with at least a portion of said radiative antenna of said portable communication device;

in said shield
mounting a coupling probe adjacent said shield and in communication with said signal transmission line; and

placing said externally radiative antenna of said portable communication device communicatively adjacent said shield so as to permit radiative communication between said externally radiative antenna of said communication device and said signal transmission line via said coupling probe; and

arranging said shield in a generally planar work surface so as to restrict the propagation of at least a portion of the radiation emanating from said communication device.

attach a cable to the shield to connect to the power

maintain the signal therebetween

customer interface to be accomplished from said

RF system

could be done in said shield area on an article of furniture

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13. The method of coupling said portable communication device to said signal transmission line, as recited in claim 12, including the step of:

attaching a control unit to said transmission line to permit regulation of electric signals therethrough.

14. The method of coupling said portable communication device to said signal transmission line, as recited in claim 13, including the step of:

adding a further communication device in juxtaposition with a further probe, so as to permit multiple simultaneous use of said transmission line and/or remote antenna therewith.

15. The method of coupling said portable communication device to said signal transmission line, as recited in claim 13, including the step of:

billing any users of said distribution system/remote antenna by monitoring and tabulating any signals received by and sent through said control unit.

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